

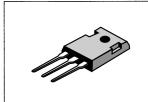
Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * Low Forward Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalance.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Cnduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

SCHOTTKY BARRIER RECTIFIERS

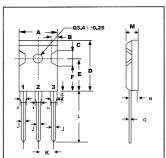
30 AMPERES 30 -- 60 VOLTS



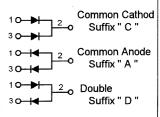
TO-247 (3P)

MAXIMUM RATINGS

Characteristic	Symbol	S30D						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24	28	31	35	42	V
Average Rectifier Forward Current Total Device	I _{F(AV)}	15 30					A	
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	FRM	30					Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	 FSM	300					Α	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 65 to + 125					°C	

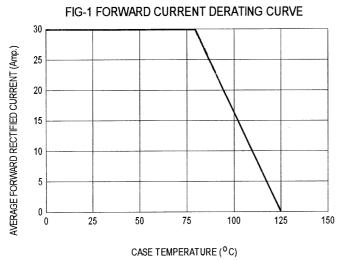


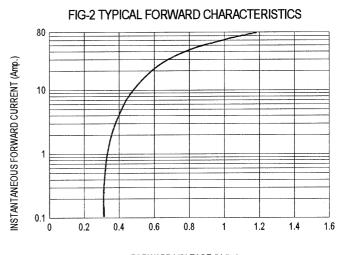
DIM	MILLMETERS				
	MIN	MAX			
Α		16.2			
В	1.7	2.7			
С	5.0	6.0			
D		23.0			
Ε	14.8	15.2			
F	11.7	12.7			
G		4.5			
Н		2.5			
1		3.5			
J	1.1	1.4			
K	5.25	5.65			
L	19				
М	4.7	5.3			
N	2.8	3.2			
0	0.45	0.85			

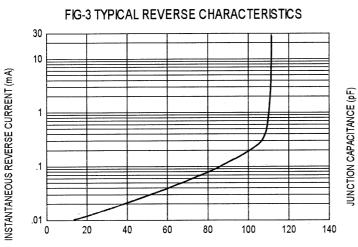


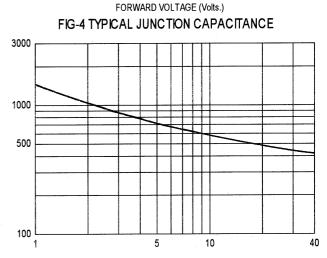
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S30D						Unit
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp}, T_c = 25 ^{\circ}\text{C}$) ($I_F = 15 \text{ Amp}, T_c = 100 ^{\circ}\text{C}$)	V _F	0.55 0.45			0.65 0.55		V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 100 °C)	I _R	5.0 80					mA	

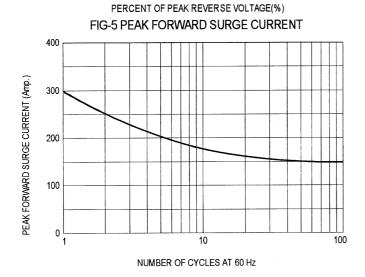


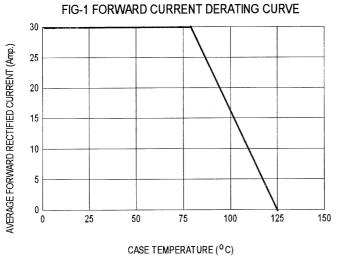


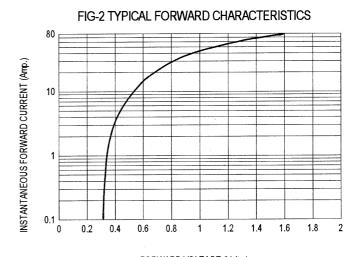


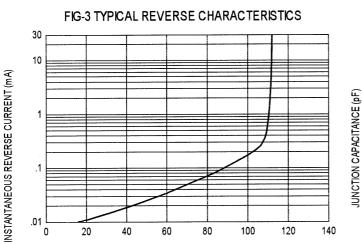


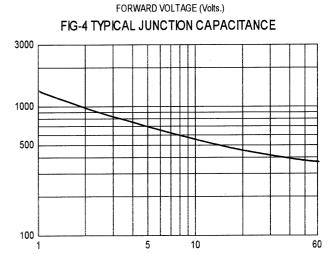
REVERSE VOLTAGE (Volts.)

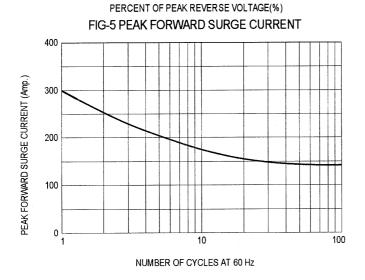












REVERSE VOLTAGE (Volts.)